

## **2. Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

### **Listing of Claims:**

1. (Original) An electronic device comprising a protective barrier layer stack comprising a first barrier layer of a first amorphous carbon modification and a second barrier layer of a second amorphous carbon modification.
2. (Original) An electronic device according to claim 1, wherein the electronic device is an organic electroluminescent device.
3. (Original) An electronic device according to claim 1, wherein the first and the second amorphous carbon modification are selected from the group of amorphous carbon modifications comprising amorphous carbon, tetrahedral amorphous carbon, hydrogenated amorphous carbon, tetrahedral hydrogenated amorphous carbon, diamond-like-carbon, and glassy carbon.
4. (Original) An electronic device according to claim 1, wherein the first and the second amorphous carbon modification are selected from the group of doped amorphous carbon modifications, wherein the dopant is selected from the group of boron, silicon, nitrogen, phosphorus, oxygen, and fluorine.
5. (Original) An electronic device according to claim 1, wherein at least one of the first and second barrier layers comprising a first or second amorphous carbon modification is selected from the barrier layers having a plasmon energy  $>27$  eV.

6. (Original) An electronic device according to claim 1, wherein the first and the second amorphous carbon modification are selected from the group of amorphous carbon modifications having a refractive index  $n > 1.8$ .

7. (Original) An electronic device according to claim 1, wherein the first and the second amorphous carbon modification are selected from the group of amorphous carbon modifications having a refractive index  $n > 2.0$ .

8. (Original) An electronic device according to claim 1, wherein the first barrier layer of a first amorphous carbon modification has a first refractive index and the second barrier layer of a second amorphous carbon modification has a second refractive index higher than the first refractive index.

9. (Original) An electronic device according to claim 1, wherein the first barrier layer of a first amorphous carbon modification has a first refractive index  $n_1 > 1.8$  and the second barrier layer of a second amorphous carbon modification has a second refractive index  $n_2 > 2.0$ .

10. (Original) An electronic device according to claim 1, comprising an interlayer between the first barrier layer of a first amorphous carbon modification and a second barrier layer of a second amorphous carbon modification.

11. (Currently Amended) An electronic device according to claim 1, wherein the interlayer comprises a polymer selected from the group of parylenes, benzocyclobutanes, polyimides, fluorinated polyimides, poly(arylene ethers), poly(naphthalenes), poly(norbornes), fluoropolymers (e.g. PTFE), chlorofluoropolymers(PCFP), and hydrocarbons.

12. (Original) An electronic device according to claim 11, wherein all amorphous carbon modifications are selected from the group of amorphous carbon modification comprising at least 10% hydrogen bound to the carbon atoms.

13. (Original) An electronic device according to claim 1, comprising an adhesion layer between the first barrier layer of a first amorphous carbon modification and the electroluminescent diode.

14. (Original) An electronic device according to claim 1, comprising a top layer lying on and in contact with the second barrier of a second carbon modification.

15. (Currently Amended) An electronic device as claimed in claim 1, ~~characterized in that~~wherein the layer thickness of the barrier layer stack ~~is~~is 30 nm.

16. (Original) A method of manufacturing an electronic device comprising an electroluminescent diode and a protective barrier layer stack comprising a first barrier layer of a first amorphous carbon modification and a second barrier layer of a second amorphous carbon modification, wherein the first and the second protective barrier layer are deposited from the gas phase.

17. (Currently Amended) A method of manufacturing an electronic device as claimed in claim 15, ~~characterized in that~~wherein the protective layer is deposited by means of a radio frequency (RF) plasma chemical vapor deposition (CVD) process.

18. (Currently Amended) A method of manufacturing an electroluminescent device as claimed in claim 15, ~~characterized in that~~wherein an operating point of the deposition from the gas phase lies in the kinetically controlled range.

19.(New) A method of fabricating an electronic device comprising an electroluminescent diode, the method comprising:

forming a protective barrier layer stack, the forming comprising:

depositing a first amorphous carbon modification from a gas phase; and

depositing a second amorphous carbon modification from a gas phase.

20. (New) A method as claimed in claim 20, wherein the depositing comprises a radio frequency (RF) plasma chemical vapor deposition (CVD) process.